Ir・ - tional Application No ドロ / IB2004/000983

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B66B5/00 B66E B66B1/36 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B66B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Χ PATENT ABSTRACTS OF JAPAN 1,7 völ. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 130355 A (HITACHI BUILDING SYSTEMS CO LTD), 18 May 1999 (1999-05-18) abstract χ PATENT ABSTRACTS OF JAPAN 1,7 vol. 0144, no. 28 (M-1025). 14 September 1990 (1990-09-14) & JP 2 169482 A (TOSHIBA CORP), 29 June 1990 (1990-06-29) abstract Α US 5 727 657 A (FOELIX HEINRICH) 1 - 817 March 1998 (1998-03-17) column 5; figures 8,11 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the lart which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention 'E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention liling date cannot be considered novel or cannot be considered to 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the citation or other special reason (as specified) \*O\* document reterring to an oral disclosure, use, exhibition or document is combined with one or more other, such docu ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed '&' document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 8 December 2004 03/01/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo ni. Trimarchi, R Fax: (+31-70) 340-3016

## IIV: SHINATIONAL SEARCH REPORT

Ir - tional Application No

| FC7/IB2004/000983

C.(Continual	ion) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/182004/000983		
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	WO 02/096791 A (CONCHELLO MORENO JOSE ANGEL; MAC PUAR S A (ES)) 5 December 2002 (2002-12-05) the whole document		1-8	
			·.	

TI ENNA HUNAL JEANUH NEFURT

iformation on patent family members

Fc / IB2004/000983

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 11130355	Α	18-05-1999	NONE		
JP 2169482	Α	29-06-1990	NONE		
US 5727657	A	17-03-1998	AT CA DE DK EP ES FI JP	201009 T 2166841 A1 59606855 D1 725033 T3 0725033 A1 2158154 T3 960410 A 8245110 A 960399 A	15-05-2001 01-08-1996 13-06-2001 06-08-2001 07-08-1996 01-09-2001 01-08-1996 24-09-1996 01-08-1996
WO 02096791	Α	05-12-2002		02096791 A1	05-12-2002